

ABSTRACT

A multi-piece solid golf ball has a solid core  
5 obtained by molding and vulcanizing a rubber composition  
which includes (A) a base rubber containing a polybutadiene  
synthesized using a rare-earth catalyst, (B) an unsaturated  
carboxylic acid and/or a metal salt thereof, (C) an organic  
sulfur compound, (D) an inorganic filler and (E) an organic  
10 peroxide. The core is enclosed within a mantle of one or  
more layer which is made primarily of a thermoplastic resin  
and has a Durometer D hardness of 30 to 70. The mantle is  
enclosed within a cover which is made primarily of a  
thermoplastic polyurethane and which has a Durometer D  
15 hardness of 40 to 60 that is lower than the Durometer D  
hardness of the outermost layer of the mantle. This  
construction provides the golf ball with an outstanding  
rebound.